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I. Amendments to the Claims

1. (Currently amended) A lance tube nozzle block for a sootblower,

comprising:

a nozzle block body defining a longitudinal axis, a hollow interior, a distal

end, and a proximate end with the proximate end receiving the cleaning medium;

a downstream nozzle positioned on the nozzle block body, the

downstream nozzle having a first inlet end, a first outlet end, and a first throat,

the first throat being positioned between the first inlet end and the first outlet end,

the dimensions of the first inlet end, the first outlet end, and the first throat

defining and having a first geometry; and

an upstream nozzle positioned longitudinally from the position of the

downstream nozzle farther from the distal end than the position of the

downstream nozzle, the upstream nozzle having a second inlet end, a second

outlet end, and a second throat, the second throat be positioned between the

second inlet end and the second outlet end, the dimensions of the second inlet

end, the second outlet end, and the second throat defining a second geometry,

the first geometry and the second geometry being selected to optimize the

cleaning energy of the nozzle block the upstream nozzle having a second

geometry different than the first geometry of the downstream nozzle,

the cleaning medium flowing in the direction of the longitudinal axis from

the proximate end towards the distal end through the nozzle block body hollow

interior and entering the downstream and upstream nozzles through the

respective first and second inlets and discharging from the downstream and

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upstream nozzles from the respective outlet ends in directions generally

perpendicular to the longitudinal axis.

2. (Original) The nozzle block of Claim 1 wherein the first throat has a

first throat area, the first outlet end has a first exit area, the second throat has a

second throat area, and the second outlet end has a second exit area, the ratio

of the first exit area to the first throat area being different than the ratio of the

second exit area to the second throat area.

3. (Currently amended) The nozzle block of Claim 1 wherein the

downstream nozzle has a first expansion zone having a first expansion length

extending between the first throat and the first outlet end, and the upstream

nozzle has a second expansion zone having a second expansion length

extending between the second throat and the second outlet end, the first

expansion length being different than the second expansion length.

4. (Currently amended) The nozzle block of Claim 1 wherein the

downstream nozzle has a first expansion zone with a first expansion length

extending between the first throat and the first outlet end, the first outlet end

having has a first exit diameter, the upstream nozzle has a second expansion

zone with a second expansion length extending between the second throat and

the second outlet end, and the second outlet end having has a second exit

diameter, the ratio of the first expansion length to the first exit diameter being

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different than the ratio of the second expansion length to the second exit

diameter.

5. (Cancelled)

6. (Currently amended) The nozzle block of Claim 1 wherein the

downstream nozzle includes a first converging section near the downstream

nozzle inlet end and a first diverging section joining the first converging section

and terminating with the first outlet end, a first throat area being defined at the

point where the juncture between the first converging section and the first

diverging section are joined, and the upstream nozzle includes a second

converging section near the upstream nozzle inlet end and a second diverging

section joining the second converging section and terminating with the second

outlet end, a second throat area of the second throat being defined at the

juncture between point where the second converging section and the second

diverging section are joined.

7. (Original) The nozzle block of Claim 1 wherein the downstream and

upstream nozzles are diametrically oriented from one another.

8. (Original) The nozzle block of Claim 1 wherein the downstream

nozzle is positioned adjacent the distal end of the nozzle block body.

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9. (Currently amended) The nozzle block of Claim 8 wherein the

downstream nozzle has a first axis of discharge aligned substantially

perpendicular to the nozzle block body longitudinal axis, and wherein the flow of

the cleaning medium does not flow substantially beyond the downstream nozzle

inlet end.

10. through 13. (Cancelled)

14. (Currently amended) The nozzle block of Claim 1 wherein the first

throat has a first throat diameter and the second throat has a second throat

diameter, that is the first throat diameter being larger than a second diameter of

the second throat diameter.

15. (Original) The nozzle block of Claim 1 wherein the cleaning medium

is comprised at least in part of steam.

16. (New) The nozzle block of Claim 1 wherein the separation between

the first throat and the first outlet end defines a first expansion length and the

separation between the second throat and the second outlet end defines a

second expansion length, the ratio of the first expansion length to the first throat

diameter being different than the ratio of the second expansion length to the

second throat diameter.

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